

FIG. 1

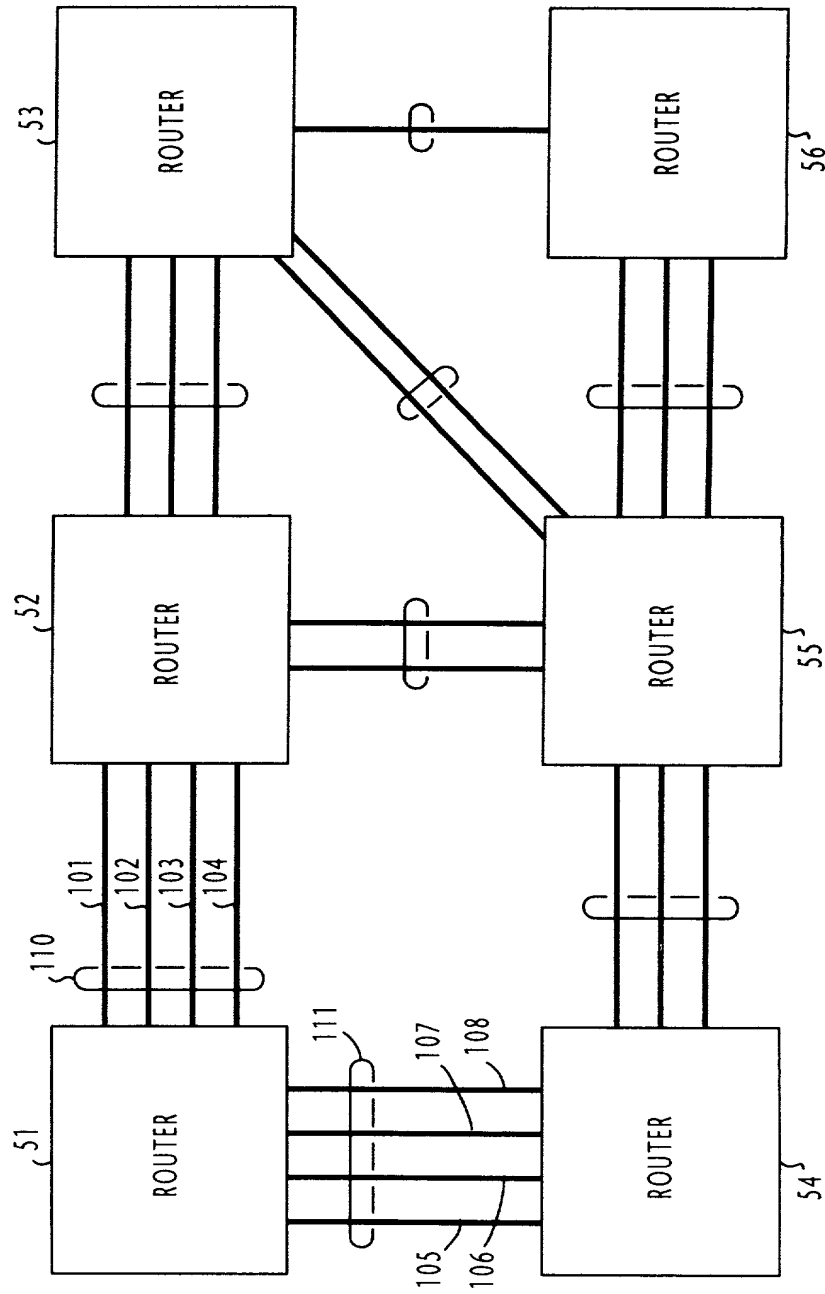
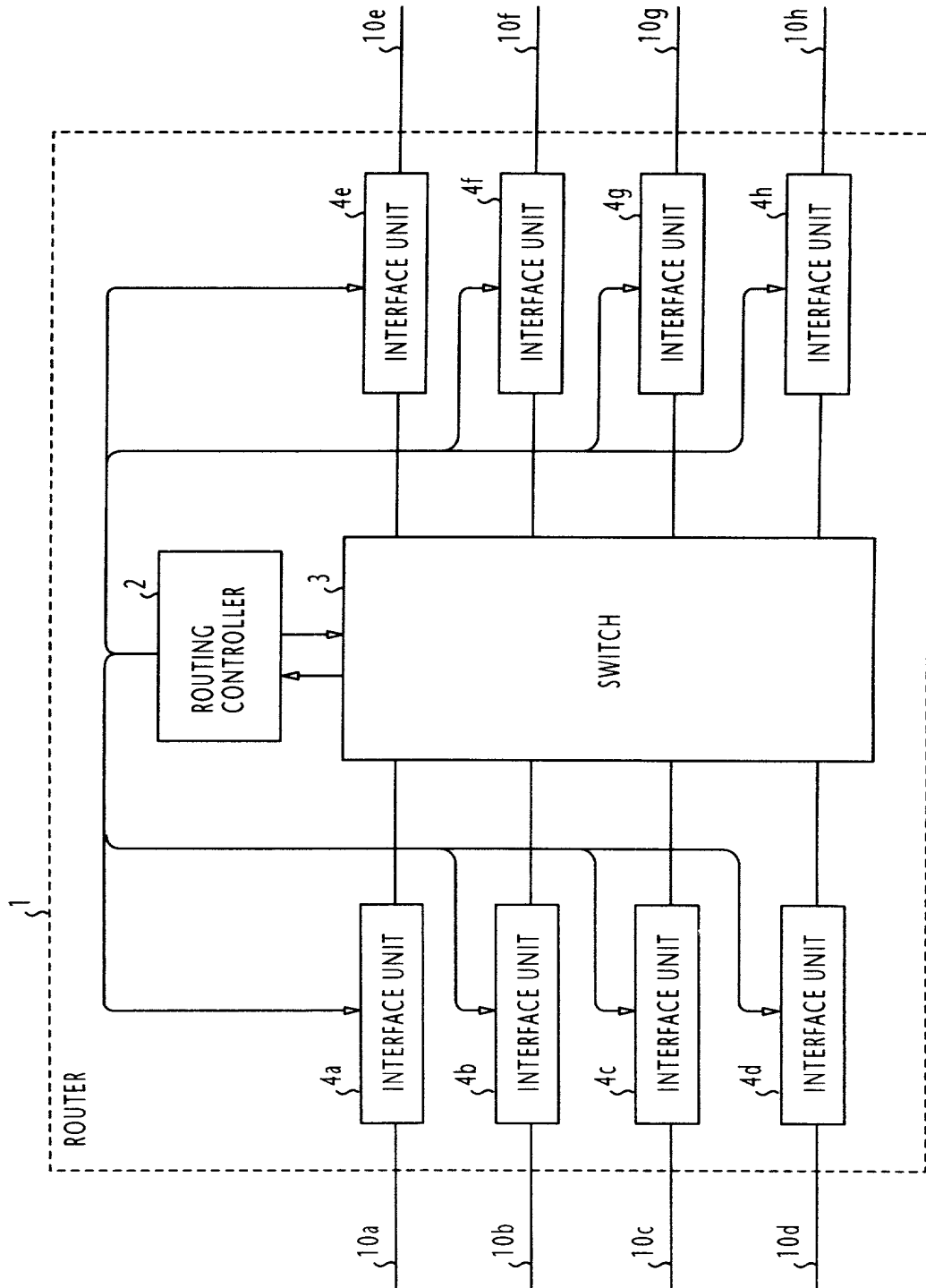
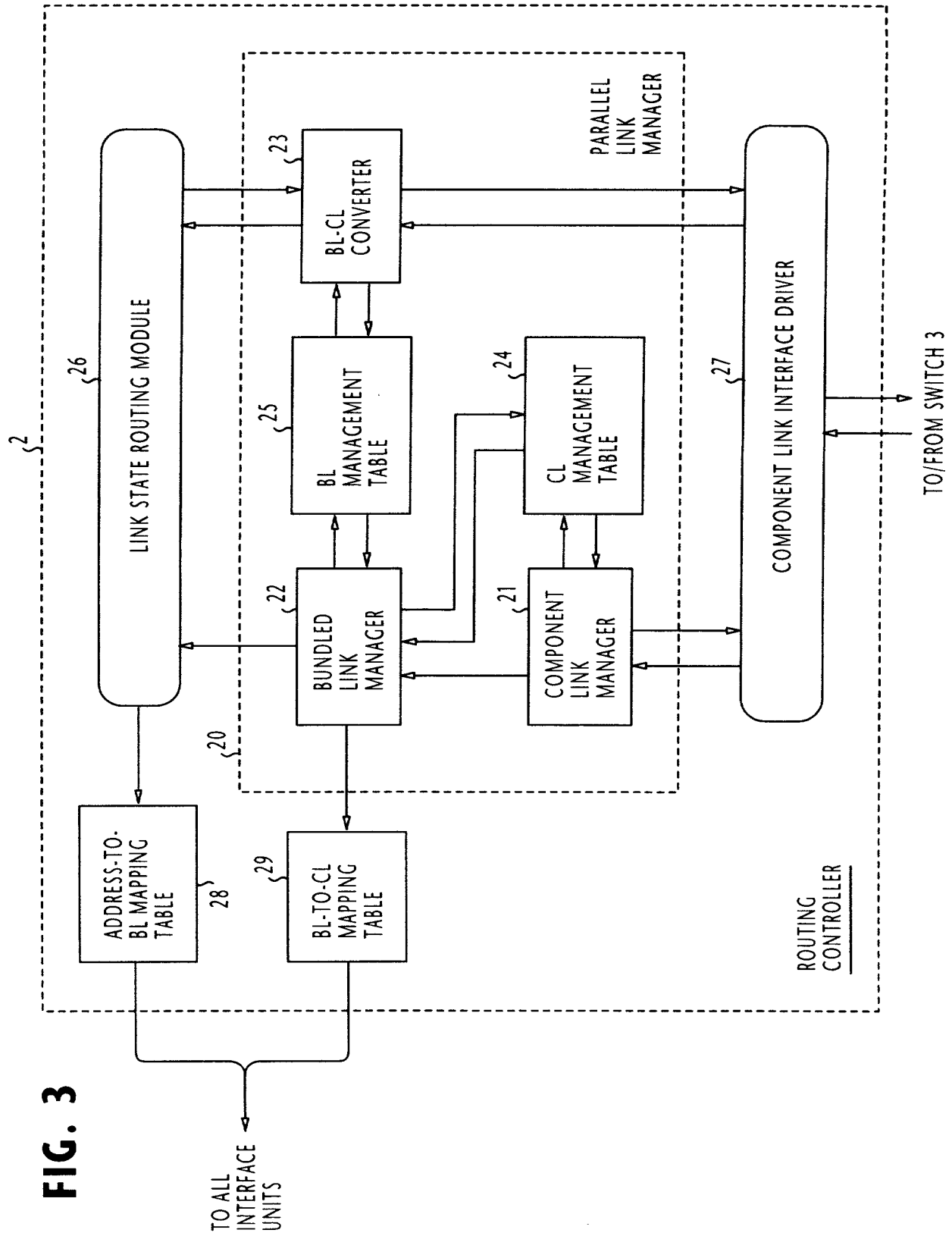


FIG. 2



CL MANAGEMENT TABLE 24

FIG. 4

COMPONENT LINK ID (CLID)	COMPONENT LINK STATE (CLST)	24-2		24-3		COMP. LINK BANDWIDTH (CLBW)
		NEIGHBOR ROUTER ID (NRID)	NEIGHBOR ROUTER LINK ID (NCLID)	24-4		
CLID=1	ESTABLISHED	133.206.0.2	NCLID=2	10		10
CLID=2	ESTABLISHED	133.206.0.2	NCLID=3	10		10
CLID=3	ESTABLISHED	133.206.0.2	NCLID=4	10		10
CLID=4	ESTABLISHED	133.206.0.3	NCLID=1	20		20
CLID=5	ESTABLISHED	133.206.0.3	NCLID=2	20		20
CLID=6	UP	133.206.0.3	NCLID=3	20		20
CLID=7	UP	—	—	10		10
CLID=8	UP	—	—	10		10
CLID=9	DOWN	—	—	30		30
CLID=10	DOWN	—	—	30		30

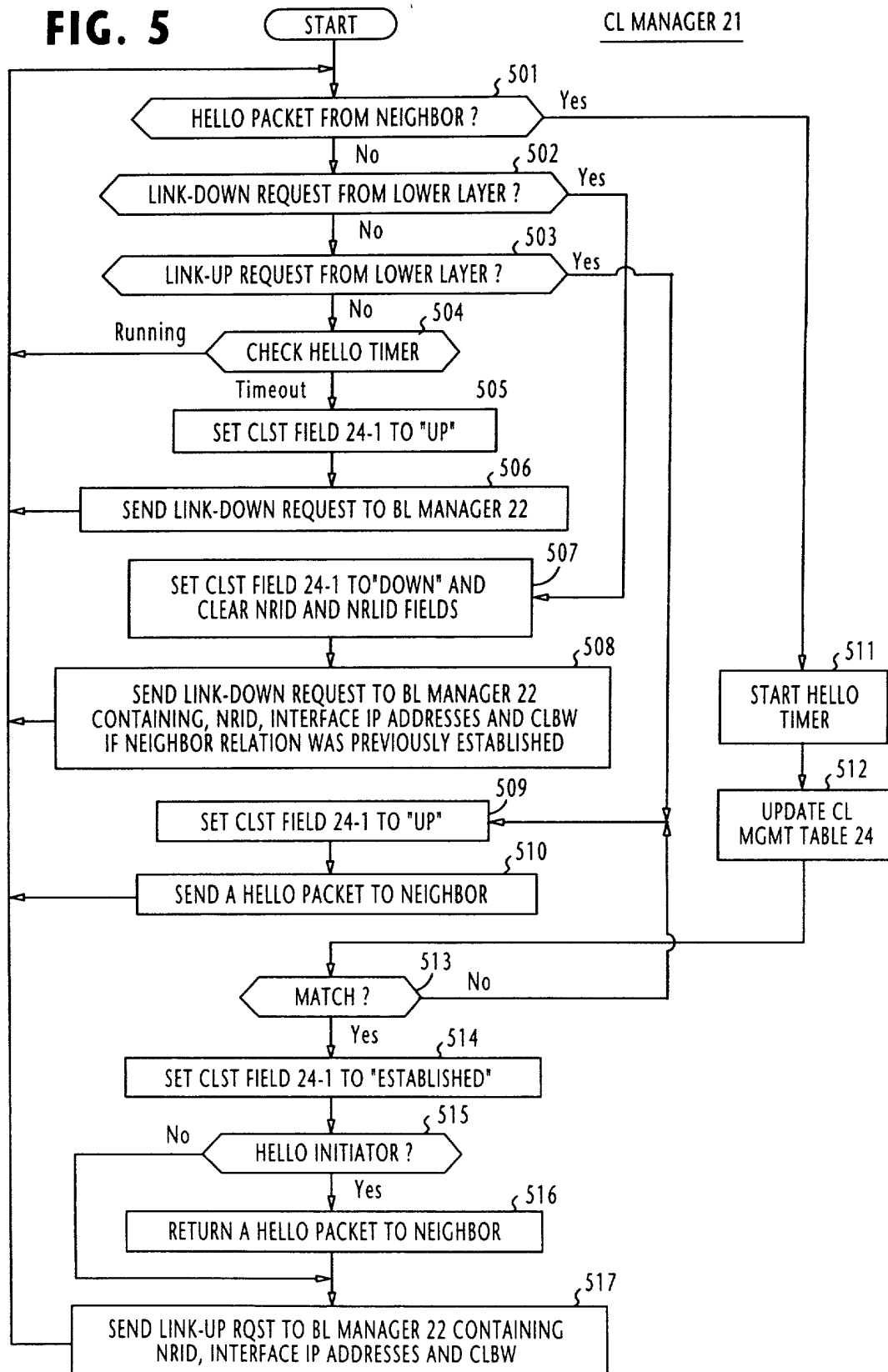
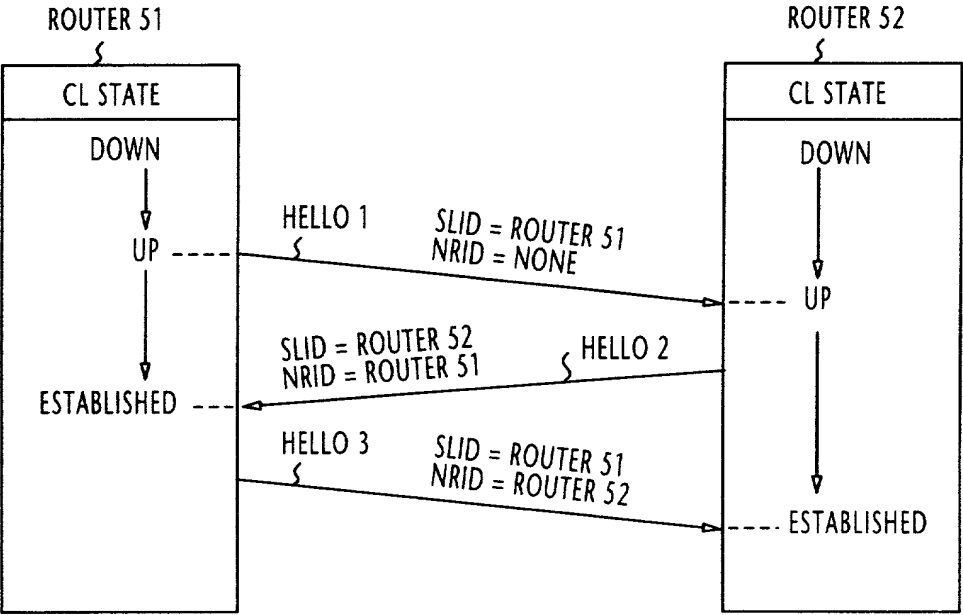
FIG. 5

FIG. 6



BL MANAGEMENT TABLE 25

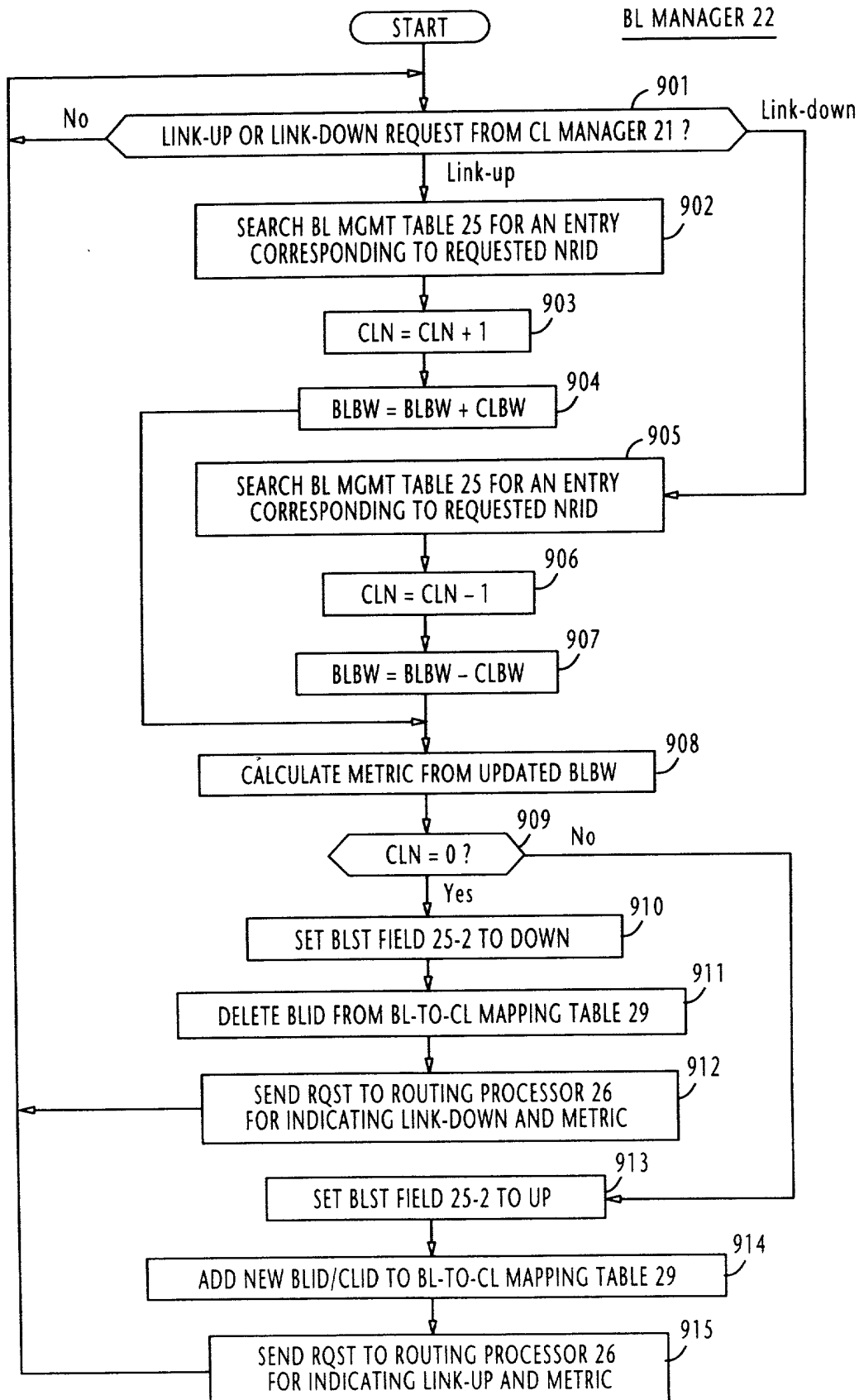
FIG. 7

BUNDLED LINK IDENTIFIER (BLID)	25-1		25-2		25-3		25-4		25-5		25-6	
	NEIGHBOR ROUTER ID (NRID)	BUNDLED LINK STATE (BLST)	NUMBER OF COMP. LINKS (CLN)	LOCAL INTERFACE IP ADDRESS	NEIGHBOR INTERFACE IP ADDRESS	TOTAL (BL) BANDWIDTH (BLBW)						
11	133.206.0.2	UP	3	133.206.10.1	133.206.10.2	30						
12	133.206.0.3	UP	2	UNNUMBERED	UNNUMBERED	40						
13	133.206.0.4	DOWN	0	133.206.30.1	133.206.30.4	0						

BL-TO-CL MAPPING TABLE 29

FIG. 8

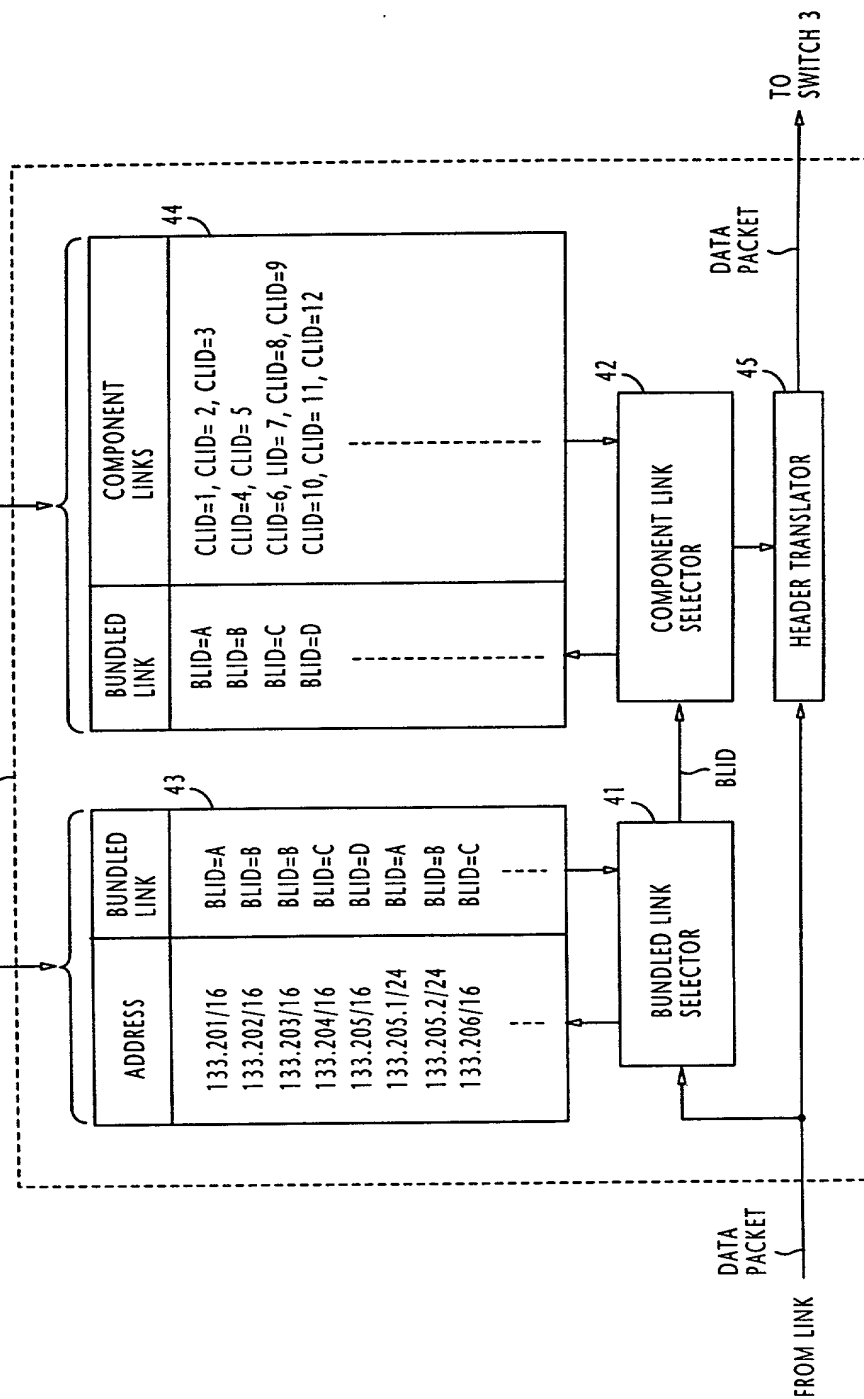
BUNDLED LINKS	BLID=11	COMP. LINKS	CLID=1	CLID=2	CLID=3	—
		USAGE RATIO	R1	R2	R3	—
	BLID=12	COMP. LINKS	CLID=4	CLID=5	—	—
		USAGE RATIO	R4	R5	—	—

FIG. 9

FROM ADDRESS-TO-
BL MAPPING
TABLE 28

FROM BL-TO-CL
MAPPING
TABLE 29

INTERFACE

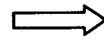


BL MANAGEMENT TABLE 25

25-1 {		25-2 {		25-3 {		25-4 {		25-5 {		25-6 {		25-7 {	
BUNDLED LINK IDENTIFIER (BLID)	NEIGHBOR ROUTER ID (NRID)	BUNDLED LINK STATE (BLST)	NUMBER OF COMP. LINKS (CLN)	LOCAL INTERFACE IP ADDRESS	NEIGHBOR INTERFACE IP ADDRESS	TOTAL BANDWIDTH (BLBW)	COMP. LINK BANDWIDTH (CLBW)						
11	133.206.0.2	UP	3	133.206.10.1	133.206.10.2	30	10						
12	133.206.0.3	UP	2	UNNUMBERED	UNNUMBERED	40	20						
13	133.206.0.4	DOWN	0	133.206.30.1	133.206.30.4	0	0						

FIG. 12 BL MANAGEMENT TABLE 25

25-1		25-2	25-3	25-4	25-5	25-6	25-7
BUNDLED LINK IDENTIFIER (BLID)	NEIGHBOR ROUTER ID (NRID)	BUNDLED LINK STATE (BLST)	NUMBER OF COMP. LINKS (CLN)	LOCAL INTERFACE IP ADDRESS	NEIGHBOR INTERFACE IP ADDRESS	TOTAL BANDWIDTH (BLBW)	COMP. LINK BANDWIDTH (CLBW)
11	133.206.0.2	UP	3	133.206.10.1	133.206.10.2	30	10
12	133.206.0.3	DOWN	0	133.206.20.1	UNNUMBERED	0	0



25-1		25-2	25-3	25-4	25-5	25-6	25-7
BUNDLED LINK IDENTIFIER (BLID)	NEIGHBOR ROUTER ID (NRID)	BUNDLED LINK STATE (BLST)	NUMBER OF COMP. LINKS (CLN)	LOCAL INTERFACE IP ADDRESS	NEIGHBOR INTERFACE IP ADDRESS	TOTAL BANDWIDTH (BLBW)	COMP. LINK BANDWIDTH (CLBW)
11	133.206.0.2	UP	3	133.206.10.1	133.206.10.2	30	10
12	133.206.0.3	UP	1	133.206.20.1	133.206.10.3	40	40

FIG. 13

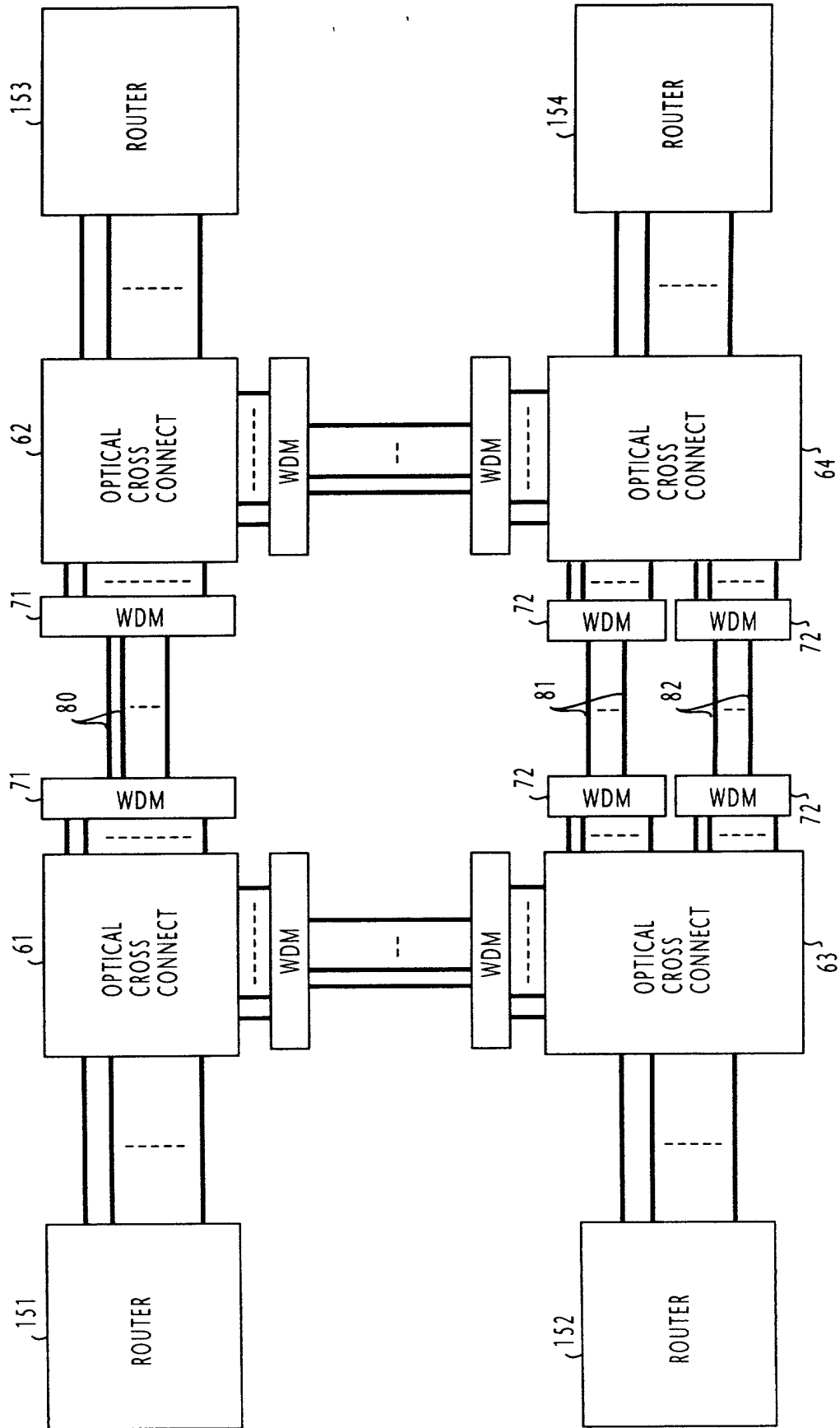
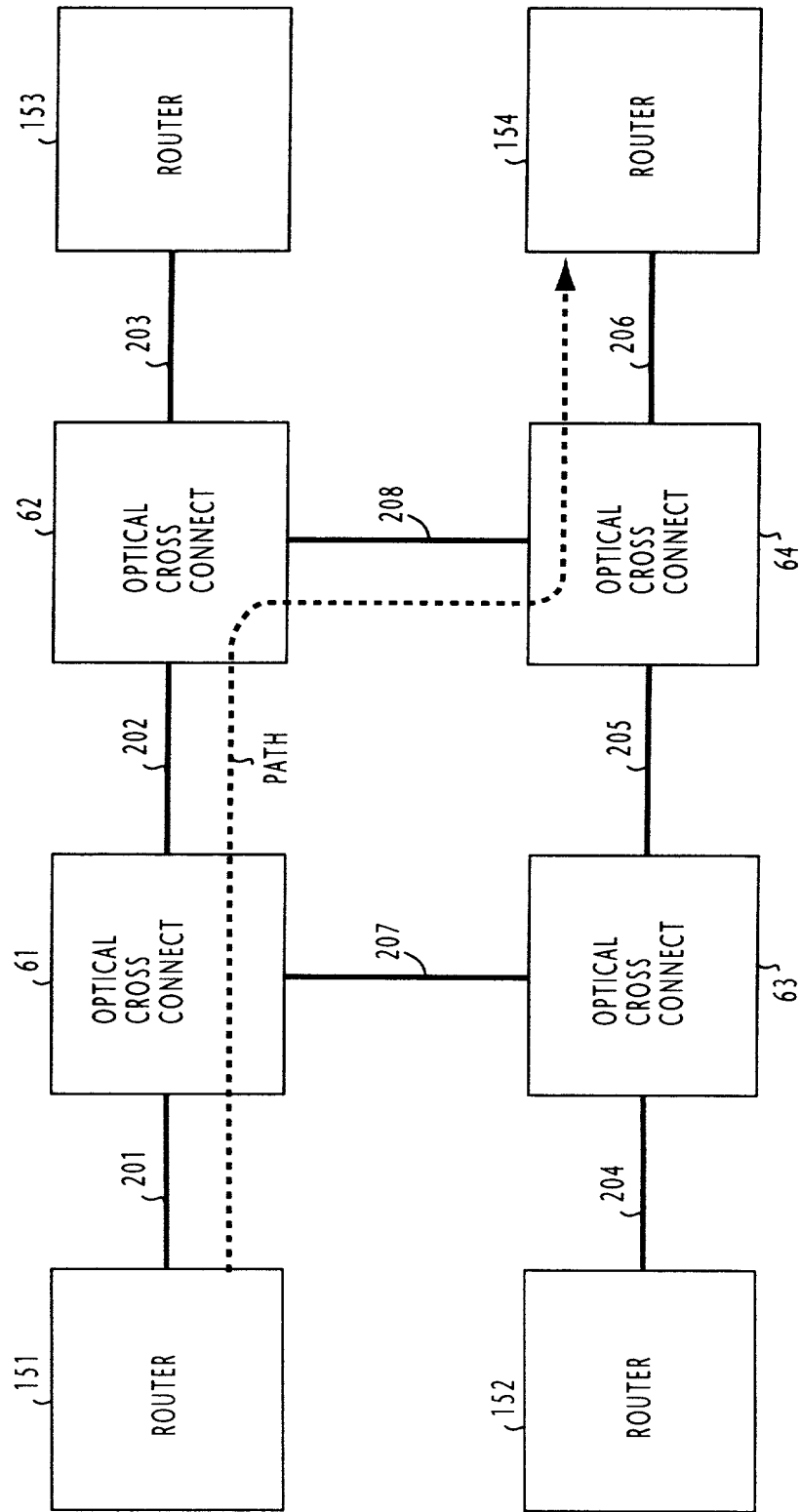


FIG. 14



CL MANAGEMENT TABLE 24A

FIG. 15

COMPONENT LINK ID (CLID)	COMPONENT LINK STATE (CLST)	NEIGHBOR ROUTER ID (NRID)	NEIGHBOR ROUTER LINK ID (NCLID)	COMP. LINK BANDWIDTH (CLBW)	BUSY/IDLE FLAG
CLID=1	ESTABLISHED	133.206.0.2	NCLID=2	10	B/I
CLID=2	ESTABLISHED	133.206.0.2	NCLID=3	10	B/I
CLID=3	UP	133.206.0.2	NCLID=4	10	B/I
CLID=4	DOWN	133.206.0.3	NCLID=1	20	B/I
CLID=5	DOWN	133.206.0.3	NCLID=2	20	B/I

BL MANAGEMENT TABLE 25A

FIG. 16

BUNDLED LINK IDENTIFIER (BLID)	NEIGHBOR ROUTER ID (NRID)	BUNDLED LINK STATE (BLST)	NUMBER OF IDLE COMPONENT LINKS (ILN)	NUMBER OF COMPONENT LINKS (CLN)	LOCAL INTERFACE IP ADDRESS	NEIGHBOR INTERFACE IP ADDRESS
11	133.206.0.1	UP	1	3	133.206.40.1	133.206.40.1
12	133.206.0.3	UP	1	3	133.206.30.2	133.206.30.3

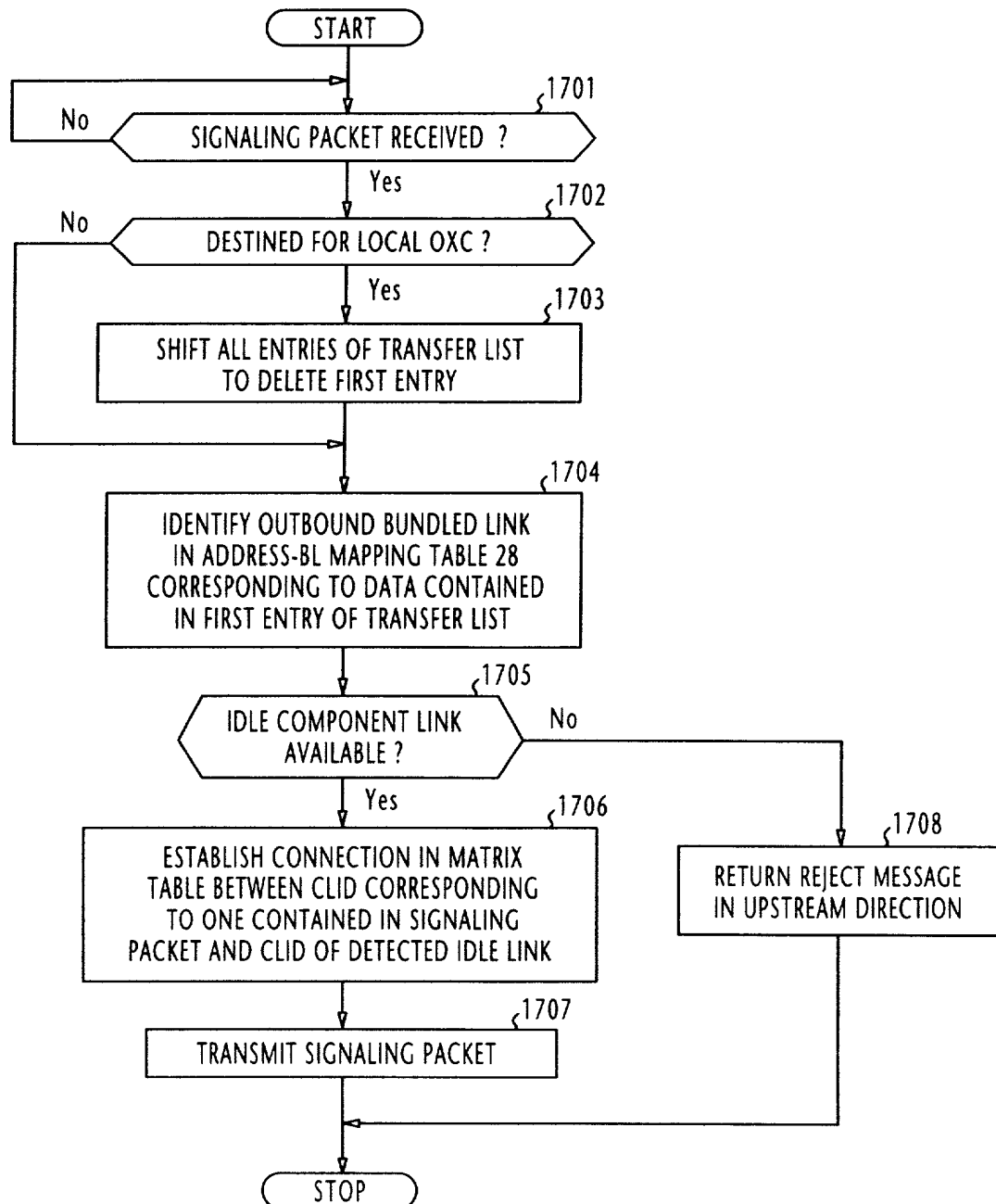
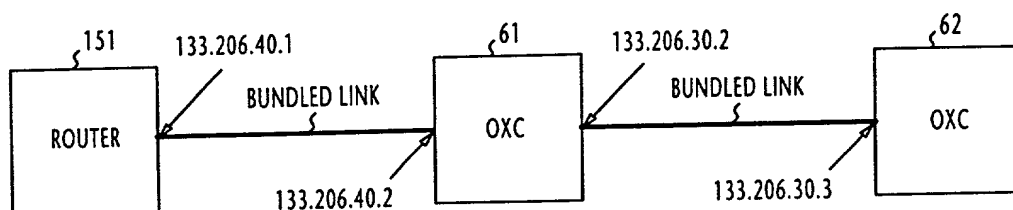
FIG. 17OPTICAL CROSS-CONNECT (OXC) NODE

FIG. 18A**FIG. 18B**